

Jürgen O Schumacher

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

521
citations

933447

10
h-index

1058476

14
g-index

14
all docs

14
docs citations

14
times ranked

584
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical modeling of highly doped Si:P emitters based on Fermi-Dirac statistics and self-consistent material parameters. <i>Journal of Applied Physics</i> , 2002, 92, 3187-3197.	2.5	154
2	Free open reference implementation of a two-phase PEM fuel cell model. <i>Computer Physics Communications</i> , 2019, 234, 223-234.	7.5	85
3	Coupled Optical and Electronic Modeling of Dye-Sensitized Solar Cells for Steady-State Parameter Extraction. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10218-10229.	3.1	58
4	Calculation of the Energy Band Diagram of a Photoelectrochemical Water Splitting Cell. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29599-29607.	3.1	56
5	AC impedance modelling study on porous electrodes of proton exchange membrane fuel cells using an agglomerate model. <i>Journal of Power Sources</i> , 2007, 173, 346-356.	7.8	51
6	Experimental parameter uncertainty in proton exchange membrane fuel cell modeling. Part I: Scatter in material parameterization. <i>Journal of Power Sources</i> , 2019, 438, 227018.	7.8	32
7	Experimental parameter uncertainty in proton exchange membrane fuel cell modeling. Part II: Sensitivity analysis and importance ranking. <i>Journal of Power Sources</i> , 2019, 439, 126529.	7.8	19
8	Analysis of Optical Losses in a Photoelectrochemical Cell: A Tool for Precise Absorptance Estimation. <i>Advanced Functional Materials</i> , 2018, 28, 1702768.	14.9	18
9	Modeling the Effects of Using Gas Diffusion Layers With Patterned Wettability for Advanced Water Management in Proton Exchange Membrane Fuel Cells. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2018, 15, .	2.1	17
10	Application of an improved band-gap narrowing model to the numerical simulation of recombination properties of phosphorus-doped silicon emitters. <i>Solar Energy Materials and Solar Cells</i> , 2001, 65, 95-103.	6.2	11
11	2+1D modelling of a polymer electrolyte fuel cell with glassy-carbon microstructures. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2012, 18, 355-377.	2.2	8
12	Exploring the thermodynamics of the bromine electrode in concentrated solutions for improved parametrisation of hydrogen-bromine flow battery models. <i>Journal of Power Sources</i> , 2021, 508, 230202.	7.8	6
13	An Ensemble Monte Carlo Simulation Study of Water Distribution in Porous Gas Diffusion Layers for Proton Exchange Membrane Fuel Cells. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2018, 15, .	2.1	3
14	Simulation of Mass and Heat Transfer in an Evaporatively Cooled PEM Fuel Cell. <i>Energies</i> , 2022, 15, 2734.	3.1	3